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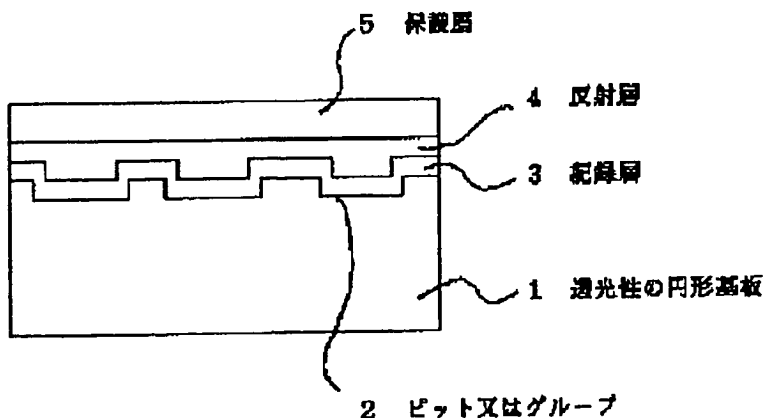
**PATENT ABSTRACTS OF JAPAN**(21) Application number: **07127201**(51) Intl. Cl.: **G11B 7/24 G11B 7/26**(22) Application date: **27.04.95**

<p>(30) Priority:</p> <p>(43) Date of application publication: <b>12.11.96</b></p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: <b>PIONEER VIDEO CORP PIONEER ELECTRON CORP</b></p> <p>(72) Inventor: <b>MOCHIZUKI MANABU KOSAKA HIROYUKI</b></p> <p>(74) Representative:</p>
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**(54) OPTICAL DISK AND ITS PRODUCTION****(57) Abstract:**

**PURPOSE:** To obtain nearly golden gloss of high reflectivity at a low cost by providing a translucent disk substrate with a reflection layer and forming the reflection layer of a copper alloy thin film contg. 8 to 15wt.% Zn, 1 to 10wt.% Ni and 1 to 10wt.% Sn.

**CONSTITUTION:** This optical disk is obt'd., by using the circular substrate 1 of polycarbonate, forming the cyanine dyestuff thin film as a recording layer 3 by a spin coating method and forming the copper alloy thin film of a thickness of 750 angstrom by DC magnetron sputtering in a vacuum degree of 10 to 3Torr by using a copper alloy target consisting of 80.3wt.% Cu, 15wt.% Zn, 2wt.% Ni, 2wt.% Sn and 0.7wt.% Mn as the reflection layer. The reflection layer of the optical disk obt'd. in such a manner exhibits nearly the golden gloss. The reflectivity attains  $\geq 70\%$  when the reflectivity is measured by making the laser beam of a wavelength of 770 to 830nm incident.



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Derwent Title: Optical disk with reflective layer containing Cu alloy - in which reflection factor of laser light projected from substrate side is more than 70% [\[Derwent Record\]](#)

Country: **JP Japan**Kind: **A**

Inventor: **MOCHIZUKI MANABU;**  
**KOSAKA HIROYUKI;**

Assignee: **PIONEER VIDEO CORP**  
**PIONEER ELECTRON CORP**  
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Published / Filed: **1996-11-12 / 1995-04-27**Application Number: **JP1995000127201**IPC Code: **G11B 7/24; G11B 7/26;**Priority Number: **1995-04-27 JP1995000127201**

Abstract: **PURPOSE:** To obtain nearly golden gloss of high reflectivity at a low cost by providing a translucent disk substrate with a reflection layer and forming the reflection layer of a copper alloy thin film contg. 8 to 15wt.% Zn, 1 to 10wt.% Ni and 1 to 10wt.% Sn.

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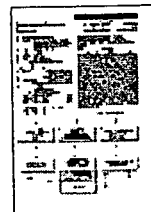
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Forward References:




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PDF	Patent	Pub.Date	Inventor	Assignee	Title
<a href="#">PDF</a>	<a href="#">US6790503</a>	2004-09-14	Nee; Han H.	Target Technology Company, LLC	<a href="#">Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</a>
<a href="#">PDF</a>	<a href="#">US6764735</a>	2004-07-20	Nee; Han H.	Target Technology Company, LLC	<a href="#">Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</a>
<a href="#">PDF</a>	<a href="#">US6544616</a>	2003-04-08	Nee; Han H.	Target Technology Company, LLC	<a href="#">Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</a>



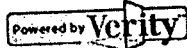
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	<a href="#">US6451402</a>	2002-09-17	Nee; Han H.	Target Technology Company, LLC	<u>Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</u>
	<a href="#">US6280811</a>	2001-08-28	Nee; Han H.	Target Technology Company, LLC	<u>Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</u>
	<a href="#">US6007889</a>	1999-12-28	Nee; Han H.	Target Technology, LLC	<u>Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</u>

Other Abstract  
Info:

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